

ABSTRACT OF THE DISCLOSURE

The present invention relates to a catalyst for removing
5 aromatic halogenated compounds comprising dioxin, carbon
monoxide and nitrogen oxide simultaneously and a method for
preparing the catalyst, more particularly, a catalyst comprising
0.1 to 5% by weight of vanadium, 1 to 12% by weight of metals in
6A family and 0.1 to 10% by weight of Ag in titania carrier or,
10 alternatively, a catalyst produced by impregnating said catalyst
in 0.05 to 1M sulfuric acid solution to carry out acid treatment.

The catalyst according to the present invention has
improved efficiency for removing 1,2-dichlorobenzene as a
reactant model of dioxin and carbon monoxide rather than
15 existing catalysts and also, alternative efficiency for removing
nitrogen oxide substantially equal to commonly known catalysts,
so that the catalyst can effectively control various air
pollutants contained in exhaust gas.